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Job No.: CECTC/BBMP/MS/W.No.12&13/CEMENT/2016-17

Date: 03.02.2017

TEST REPORT ON CEMENT

CLIENT	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
AGENCY	:	**Sri. Muraliswamy,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements & Asphalting of ward roads & connecting roads in Ward No.12 & 13 of Shettyhalli subdivision, Dasarahalli Zone, Package No.DZ 2015-16-(01), BBMP, Bangalore.
SAMPLE ID	:	Cement
DATE OF TESTING	:	03.02.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	158 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	476 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
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Job No.: CECTC/BBMP/MS/W.No.12&13/Cube/2016-17 14.03.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. Muraliswamy,** Contractor, Bangalore.

Name of the work : Improvements & Asphalting of ward roads & connecting roads in Ward No.12 & 13 of Shettyhalli subdivision, Dasarahalli Zone, Package No.DZ 2015-16-(01), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.02.2017	14.03.2017	8.274	366.9	16.31
2	14.02.2017	14.03.2017	8.332	380.5	16.91
3	14.02.2017	14.03.2017	8.394	403.4	17.93

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Job No.: CECTC/BBMP/MS/W.No.12&13/CUBE/2016-17

18.03.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. Muraliswamy,** Contractor, Bangalore.

Name of the work : Improvements & Asphalting of ward roads & connecting roads in Ward No.12 & 13 of Shettyhalli subdivision, Dasarahalli Zone, Package No.DZ 2015-16-(01), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.02.2017	18.03.2017	8.259	495.8	22.04
2	18.02.2017	18.03.2017	8.364	513.7	22.83
3	18.02.2017	18.03.2017	8.410	504.6	22.43

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Job No.: CECTC/BBMP/MS/W.No.12&13/CUBE/2016-17 23.03.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. Muraliswamy,** Contractor, Bangalore.

Name of the work : Improvements & Asphalting of ward roads & connecting roads in Ward No.12 & 13 of Shettyhalli subdivision, Dasarahalli Zone, Package No.DZ 2015-16-(01), BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.02.2017	23.03.2017	8.258	493.0	21.91
2	23.02.2017	23.03.2017	8.372	511.7	22.74
3	23.02.2017	23.03.2017	8.425	517.6	23.00

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Date : 21.02.2017

JobNo: CECTC/BBMP/MS/W.No.12&13/GSB-II/2016-17

GRADATION FOR GSB (Close Graded)
IS : 2720 (Part - 4)

Agency : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Client : **Sri. Muraliswamy,** Contractor, Bangalore

Name of work : Improvements & Asphalting of ward roads & connecting roads in Ward No.12 & 13 of Shettyhalli subdivision, Dasarahalli Zone, Package No.DZ 2015-16-(01), BBMP, Bangalore.

Date of Testing : 21.02.2017

Oven Dry Wt (gm) : 13382

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53	-	-	-	100	100
26.5	390	390	2.91	97.09	70-100
9.5	2420	2810	21.00	79.00	50-80
4.75	2355	5165	38.60	61.40	40-65
2.36	2364	7529	56.26	43.74	30-50
0.425	2842	10371	77.50	22.50	15-25
0.075	2310	12681	94.76	5.24	3-10
PAN	701				
Total	13382				

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading II

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಸಂಖ್ಯೆ: ಪಂಚಾಯತ್, ಬೆಂಗಳೂರು

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